

## **DYNAMIC LOGISTICS ROUTING SYSTEM**

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### **ABSTRACT OF THE DISCLOSURE**

A method for scheduling work and delivery of material for items in a factory which includes obtaining a customer order, determining a current state of an available  
15 inventory of material from a plurality of material sources, generating a material request plan for producing the item using the customer order and the current state of the available inventory and executing the material request plan. The customer order includes an item ordered by a customer and the item has an associated quantity of a material to produce. The customer order also includes a desired shipping schedule.  
20 The generating a material request plan includes scheduling based upon the desired shipping schedule. The executing the material request plan takes into account the desired shipping schedule.